10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

phospho-MAP4 (Ser1046) Rabbit pAb

Catalog # AP96520

Product Information

Application	WB
Primary Accession	P27546
Other Accession	P27546
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	117429
Physical State	Liquid
Immunogen	KLH conjugated synthesised phosphopeptide derived from mouse MAP4 around the phosphorylation site of Ser1046
Epitope Specificity	VG(p-S)LD
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 4 Tau/MAP repeats.
SUBUNIT	Interacts with SEPT2; this interaction impedes tubulin-binding (By similarity).
Post-translational modifications	Phosphorylated at serine residues in K-X-G-S motifs by MAP/microtubule affinity-regulating kinase (MARK1 or MARK2), causing detachment from microtubules, and their disassembly (By similarity). Phosphorylation on Ser-760 negatively regulates MAP4 activity to promote microtubule assembly. Isoform 4 is phosphorylated on Ser-333 and Ser-334 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The MAP4 (Microtubule associated protein 4)is a non neuronal microtubule associated protein. It promotes microtubule assembly.The phosphorylation of the Pro rich region in the C-terminus negatively regulates MAP4 activity to promote microtubule assembly.

Additional Information

Gene ID	17758
Other Names	MAP-4; Mtap-4; Mtap4; MAP4_HUMAN; MAP4; MAP4_MOUSE; MAP4_RAT; microtubule associated protein 4; MAP4 (phospho-S1046); p-MAP4; phospho-MAP4; MAP4 (phospho-Ser1046)
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Map4
Synonyms	Mtap4
Function	Non-neuronal microtubule-associated protein. Promotes microtubule assembly.
Cellular Location	Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P27816}. Cytoplasm, cytoskeleton, microtubule organizing center {ECO:0000250|UniProtKB:P27816}. Note=Recruitment to microtubule is inhibited by microtubules polyglutamylation {ECO:0000250|UniProtKB:P27816}
Tissue Location	Testis, striated and cardiac muscle.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.